

Notice of Allowability

Application No.

10/058,409

Examiner

Renata McCloud

Applicant(s)

KOBAYASHI ET AL.

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2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/11/2005.
2. ☒ The allowed claim(s) is/are 1,5-7,9,10,25-27,29 and 31.
3. ☒ The drawings filed on 7/7/03;10/14/04 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 04/07/2003. * FORMAL DRAWINGS AS REPLACEMENT SHEETS NEEDED
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MARLONT FLETCHER
PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 5-7, 9, 10, 25-27, 29, and 31 are allowed. The following is an examiner's statement of reasons for allowance:

Claims 1,5,6: The prior art fails to teach or make obvious a DC motor control method in a device which drives a mechanism by using a DC motor as a power source comprising a second velocity command value generation step for generating a velocity command value to the motor in accordance with a second function having an initial value less than a minimum value of the velocity command value generated in the first velocity command value generation step upon the determination that the mechanism arrives at the predetermined position in the first determination step; a second determination step determining if the elapsed time has exceed a predetermined time when the mechanism does not arrive at the predetermined position; and a third velocity command step for outputting a constant velocity command to the motor when the elapsed time has exceed the predetermined time.

Claim 7: The prior art fails to teach or make obvious a DC motor controller in a device which drives a mechanism by using a DC motor as a power source comprising a second velocity command value generation means for generating a velocity command value to the motor in accordance with a second function having an initial value less than a minimum value of the velocity command value generated in the first velocity command value generation means; means for changing the first velocity command value generated in the first velocity command value generation means to the velocity

command value generated by the second velocity command value generation means, when the mechanism arrives at the predetermined position within a deceleration region; a second determination step determining if the elapsed time has exceed a predetermined time when the mechanism does not arrive at the predetermined position; and a third velocity command step for outputting a constant velocity command to the motor when the elapsed time has exceed the predetermined time.

Claims 9, 10, 25-27, 29, and 31: The claims depend from the above-mentioned allowable claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renata McCloud whose telephone number is (571) 272-2069. The examiner can normally be reached on Mon.- Fri. from 8 am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2800 ext. 4. The fax phone


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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Renata McCloud
Examiner
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RDM



MARLON T. FLETCHER
PRIMARY EXAMINER